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CDX-GS500R

App Remote Receiver w/Pandora® control

Safely control select apps[8] from your iPhone®[4] using the App Remote feature. View app information directly on the phone's screen and customize the display color.

Bullets

- App Remote for popular iPhone®[8] application control
- Rear USB in for iPod®[3], iPhone®[3] & other USB devices[2]
- Pandora® internet radio app control for iPhone®[4]
- 5 Volt front, rear and sub preamp outputs
- 3 year warranty
- Dynamic Color Illuminator™with Sound Synchronization
- SiriusXM™ Satellite radio connector ready[5]
- Intuitive Quick-BrowZer® and ZAPPIN™ search features
- CD and MP3/WMA/AAC music file playback[1] with DM+
- Advanced Sound Engine with EQ7 & HPF/LPF crossovers
- Automatic Level Optimizer balances levels between tracks
- Detachable faceplate with LCD display & front aux input
- Hi-power 52 watt x 4 Dynamic Reality Amp
- Digital Clarity Tuner with Radio Data System (RDS)
- Convenient wireless remote (RM-X211)
- Steering wheel remote control input ready[7]

Features

Easy access to select iPhone®[4] apps[8]

Sony's exclusive App Remote feature combines music and select iPhone®[4] apps[8] into a single source list that can be safely displayed and controlled directly from your receiver. Application content is displayed on your iPhone while audio content plays through your speakers.

Versatile rear USB 1-wire input cable

Connect, control and charge your Walkman®, iPod®[3], iPhone®[3], Android™[6], Blackberry®[6], or other compatible USB device[2] while accessing your digital music files using the rear mounted, 1.5 meter long USB input cable. You can also view metadata like song title and artist on the front display.

Pandora® Internet Radio Control[4]

Pandora® is the leading internet radio service, giving people music they love anytime, anywhere, through personalized radio stations. The CDX-GS500R provides complete access to your Pandora account using your iPhone®[4].

5V RCA outputs for system expansion

When you're ready to expand your system, the CDX-GS500R delivers a robust 5 volts to front, rear and subwoofer RCA pre-amp outputs for external amplifiers. The adjustable subwoofer level control also lets you dial in the bass when you're ready to pump it up.

3 year warranty

The Sony CDX-GS500R is backed by a 3 year factory warranty.

Variable Color Illumination

Match your radio's illumination to complement your existing vehicle lighting components with the Dynamic Color Illuminator™. With selectable Sound Synchronization, the timing of the color change is synchronized with the audio source.

SiriusXM™ Satellite radio ready[5]

The on-board SiriusXM™ connector[5] simplifies satellite radio installation by eliminating compatibility issues and providing direct connection to the new platform of tuners.

Intuitive music search features

Use Quick-BrowZer® to find music by artist, album, genre, song or playlist. Jump Mode allows you to fast forward through a category in 10% increments while the ZAPPIN™ feature can play a 6, 9, or 30 second intro clip to help you find a specific song.

Plays CDs and popular digital files[1]

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Multi-format playback lets you play your MP3, WMA, or AAC songs[1]. Hear digital music files in their original vibrancy with DM+ (Digital Music Plus), a Sony® codec enhancer that reproduces detailed frequencies from compressed audio files.

Custom sound settings with EQ7

The Advanced Sound Engine uses EQ7 equalizer, adjustable LPF/HPF crossovers, Listener Position calibration, DM+ advanced sound restoration, Rear Bass Enhancer, and Dynamic Loudness volume leveler to deliver an impressive listening experience.

Smooth playback transitions

Automatic Level Optimizer analyzes each tracks playback levels and adjusts output level to optimize transitions between tracks and sources.

Convenient control panel design

The easy-to-read single line LCD display shows source information, clock, station ID and track data when playing back digital files from CD or external USB devices. Front auxiliary input lets you connect almost any portable audio device to your car's sound system.

Powerful in-dash amplification

The internal Dynamic Reality Amp delivers 52 watts x 4 to your interior speakers, allowing you to crank up the volume while maintaining low distortion, low noise levels and smooth frequency response. Your music isn't just louder, its clearer too.

The immaculate reception

The Digital Clarity Tuner delivers industry leading signal to noise ratios, lower interference, better multipath rejection and better stereo separation. The RDS feature displays broadcast information when listening to compatible AM/FM stations.

Convenient wireless remote included

Control your receiver while keeping your eyes on the road with the included wireless card remote (RM-X211).

Steering wheel control ready input[7]

This receiver is compatible with aftermarket remote control adapters[7] designed to utilize the vehicles existing, primary radio controls directly from the steering wheel. The 1/8" rear panel mounted remote input jack allows for simple connectivity.

Specifications

Amplifier Section	
Max power output	52 watts x 4 at 4 ohms
Power Ad Hoc	CEA2006 Standard Power: 17 Watts RMS per channel into 4 Ohms, 4 channels driven from 20 Hz to 20 kHz with less than 1% THD+N.
Speaker Impedance	4-8 Ohms
AMP & General Feature	
Automatic Level Optimizer	Yes
Aux-In	Front
DM+ (Codec enhancer)	Yes (Gen2.1)
EQ	EQ7: 7 band EQ with +/- 6 dB adjustment at 63 Hz, 160 Hz, 400 Hz, 1000 Hz, 2.5 kHz, 6.3 kHz and 16 kHz.
High Pass Filter	Selectable on/off at: 50, 60, 80, 100 or 120 Hz.
High Voltage Pre Out	5 V
Loudness	Dynamic
Low Pass Filter	Selectable on/off at: 50, 60, 80, 100 or 120 Hz.
Output Power (4ohm, 1kHz,16V) (W)	52 watts x 4

Pre Out	(3) Front, Rear and Sub
Rear Bass Enhancer	Yes
Sirius/XM Connector	Yes
Subwoofer Direct Connection	Yes
Time Alignment Custom	Adjustable
Time Alignment Preset	Yes
USB	Rear
Audio	
Band	AM / FM
Equalizer	EQ7: 7 band EQ with +/- 6 dB adjustment at 63 Hz, 160 Hz, 400 Hz, 1000 Hz, 2.5 kHz, 6.3 kHz and 16 kHz.
Format(s) Supported	MP3/WMA/AAC files[1]
Preout Impedance	220 ohms
Preout Voltage	5 volt
S/N Ratio	Audio Power: CEA2006 S/N 80 dBA
Signal-to-Noise Ratio (dB)	CD: 120 dB

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Station Preset(s)	18 FM / 12 AM
Tuner Frequency Range	FM (MHz): 87.5-107.9 AM (kHz): 530-1710
Tuner Type	Digital clarity tuner with RDS
Wow and Flutter	Below measurable limit
AUX in Feature	
Level Adjustment	-8dB - +18dB
Convenience	
Tilt Range	0-45° mounting angle
Convenience Features	
Dimmer Adjust	Selectable Auto adjust or manual on/off
Key Illumination	Variable color illumination
On-Screen Clock	12H
Display	
Display Color	Black / Variable color
Display Technology	LCD
Text Displayed	Source, artist, track, playback time, menu, clock and Pandora® data
Text Lines	1 line of information
Display Panel	
Auto off mode	Yes
Dimmer Adjust	Auto
Key Illumination Initial	Variable
Panel Design	
Display color (Color Variation/ Nega or Posi)	Black color/Negative
Display Device (LCD/FL/OEL/TFT)	LCD
Key Illumination	Variable
Panel finish color	Dark Titanium
Feature	
CODEC (for USB)	MP3, WMA, AAC
Jump Mode	Yes
List Browsing (Folders/Files)	Yes
Pause	Yes
Repeat	OFF/ TRACK/ ALBUM
Resume Play	Yes
Shuffle	OFF/ALBUM/DEVICE
ZAPPIN	Yes
General	
CEA2006 output power	17
CEA2006 S/N	80
Dimensions (WxHxD) (mm)	178x50x177
Maximum output power (4ohm, 1kHz, 16V)(W)	52
Mounting dimensions (WxHxD)(mm)	182x53x160
Preout impedance (ohms)	220
Preout output level (V)	5
Weight (kg)	1.2
Inputs and Outputs	
12V Trigger Output(s)	Power remote on
Antenna Terminal(s)	AM/FM Antenna Input Terminal
Audio In	Front Aux in with variable level Rear USB input SiriusXM™ connector
Digital Audio Input(s)	Ability to use all forms of USB devices may vary as not all devices are compatible. This unit is compliant with MSC (Mass Storage Class) and MTP (Media Transfer Protocol) type USB devices compliant with the USB standard. This unit cannot recognize USB devices via a USB hub. This unit can be connected to the following iPods. Update your iPod to the latest software before you use it. iPod Nano 1st - 6th generation iPod Touch 1st - 4th generation iPod Classic iPod with video iPhone iPhone 3G iPhone 3GS iPhone 4 iPhone 4S If you have any questions or problems concerning your unit that are not covered in the owners manual, consult your nearest Sony dealer.
Infrared Port	Wireless remote
RCA Audio Output(s)	Front, Rear, and Subwoofer RCA pre-amp outputs
Remote Jack	Optional wired remote terminal
USB Port(s)	Rear
iPod Control Feature	
Accessory Information	Yes
CODEC (for iPod)	Depend on iPod® content
List Browsing (Folders / Files)	Quick-BrowZer®
Pandora Link (USB)	Yes
Passenger Control	Yes
Pause	Yes
Repeat	Track, Album, Artist, Playlist, Genre, Podcast
Resume Play	Yes
Shuffle	Track, Album, Artist, Playlist, Genre, Podcast
ZAPPIN	Yes
USB Capable	
USB Mass Storage Device	Yes
Instruction Manual Language	
English	Yes
French	Yes

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Other Features	
Card Remote ( ): Option	RM-X211
CD lock mode	Yes
Clock	12H
Rotary commander ( ):Option	Optional wired remote input
Security	Detachable
Tuner	
FM Usable Sensitivity	8 dBf
Frequency Response	FM: 20-15,000 Hz
S/N Ratio	80 dB (stereo)
Selectivity	75 dB at 400 kHz
Stereo Separation	50 dB at 1 KHz
FM: Channel separation (dB)	50 dB at 1 kHz
FM: Frequency response (Hz)	20 - 15k
FM: Intermediate frequency (MHz)	25 KHz
FM: S/N ratio (mono) (dB)	80 dB stereo
FM: Selectivity (400 kHz) (dB)	75 dB
FM: Tuning range (MHz)	87.5-107.9
FM: Usable sensitivity (75 ohm) (dBf)	8 dBf
MW: Tuning range(kHz)	530-1710
MW/LW/SW: Sensitivity (75 ohm) MW/LW/SW(uV)	26/-/-
Tuner Feature	
Preset	FM18 / AM12
RDS/EON (NA Only:RBDS, Others:RDS)	RBDS
Weights and Measurements	
Dimensions (Approx.)	178 x 50 x 177 mm, 7.125 x 2 x 7 inch (w/h/d)
Dimensions (Approx) Depth	7" (177 mm)
Dimensions (Approx) Height	2" (50 mm)
Dimensions (Approx) Width	7.125" (178 mm)
Weight (Approx.)	1.2 kg (2 lb. 11 oz.)
Supplied Accessories	
Supplied Accessories	Parts for installation and connections (1 set) RM-X211 wireless remote
Optional Accessories	
Optional Accessories	USB connection cable for iPod®: RC-100IP SiriusXM™ Connect tuner: SXV100

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1. Not all files may playback due to file variations. Copyright protected ACC-LC files not supported.
2. Not all USB devices are compatible. Consult www.esupport.sony.com for complete details.
3. Works with iPod touch® (1st – 4th generations), iPod nano® (1st– 6th generations), iPod classic®, iPod with video and iPhone®, 3G, 3GS, 4 and 4S.
4. Works with iPhone® 3G, 3GS, 4 and 4S via USB port.
5. Requires tuner and subscription, sold separately.
6. Compatible with Android™ or Blackberry® smartphones supporting Mass Storage Class (MSC) devices, users required to manually select MSC/USB connection in smartphone menu for proper functionality.
7. Compatibility varies as not all vehicles are compatible; please consult with each interface manufacturer for details.
8. Requires download of free Sony App Remote app for iPhone® from the App Store. Users must link compatible apps to the App Remote application on their phone in order to play the audio signal on the Sony receiver.

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